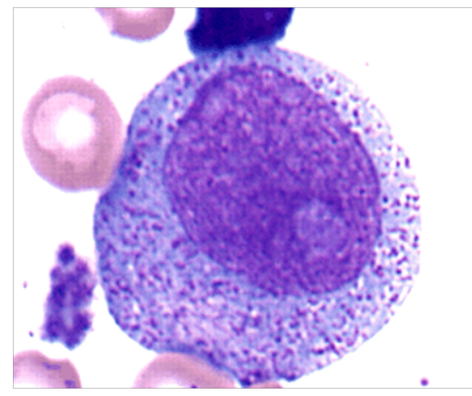
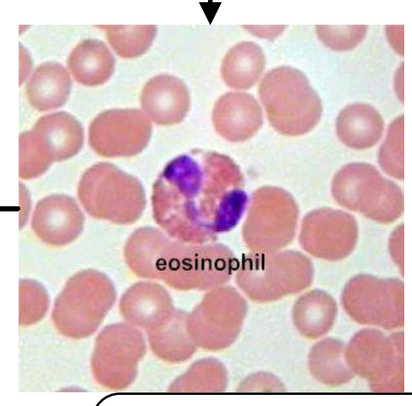


Myeloblast and Promyeloblast

- **Early neutrophilic myelocyte**
  - **Late neutrophilic myelocyte**
    - **Neutrophilic metamyelocyte (no granules)**
      - **Band/Stab Cell**
        - **Neutrophil**

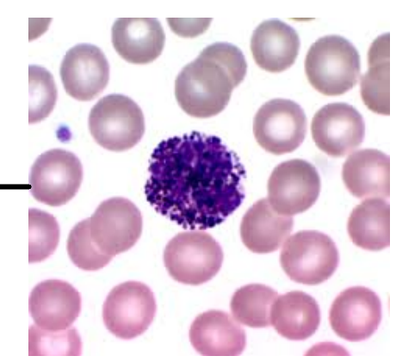
- **60-70%**
- **3 Specific Granules: Gelatinase and Cathespins**
- **Bacterial Infection, Active Phagocytosis**
- **3-5 Lobes**
- **Drumstick Barr Body**
- **IgG**
- **Margination: many attached to blood vessel**
- **Synthesize Leukotrienes from Arachidonic acid**

- **Early Eosinophilic myelocyte**
  - **Late eosinophilic myelocyte**
    - **Eosinophilic Metamyelocyte**



- **2-4%**
- **2 Specific Granules Defense against parasites**
  - **Major Basic Protein (crystallized EM)**
  - **Cationic Protein, Neurotoxin**
- **Inhibit histamine (other granules)**
- **Phagocytize Ab-Ag Cmplx**
- **Chemoattraction inhibited by steroids**

- **Early Basophilic Myelocyte**
  - **Late Basophilic Myelocyte**
    - **Basophil**



- **<1%**
- **Inflammatory Response: Histamine, Heparin, serotonin**
- **Allergic response (Anaphylactic shock)**
- **Anti Parasitic**